



PCT

#9

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/857,896A

DATE: 04/22/2002 P.6
 TIME: 15:00:35

Input Set : A:\BB1313 PCTseqlist.txt
 Output Set: N:\CRF3\04222002\I857896A.raw

3 <110> APPLICANT: E. I. du Pont de Nemours and Company
 5 <120> TITLE OF INVENTION: PLANT DISEASE RESISTANCE GENES
 7 <130> FILE REFERENCE: BB1313
 9 <140> CURRENT APPLICATION NUMBER: 09/857,896A
 C--> 10 <141> CURRENT FILING DATE: 2002-03-04
 12 <150> PRIOR APPLICATION NUMBER: 60/112,737
 13 <151> PRIOR FILING DATE: 1998-12-18
 15 <160> NUMBER OF SEQ ID NOS: 42
 17 <170> SOFTWARE: Microsoft Office 97
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 1600
 21 <212> TYPE: DNA
 22 <213> ORGANISM: Oryza sativa
 24 <400> SEQUENCE: 1
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 26 cattcccaca gaaaaagtgc aagcactttc ttgatgtaat ttctacaga ttgcagattg 120
 27 gaagttgtct ctgactgtgc cattatgtct ttcaatgttc atggatggca taacttgttc 180
 28 tggttctcta caatccccct ttagtaact ttagcagttg gaacaaagct gcaggctata 240
 29 attgcaatga tggctgttga aattaaagag aggcatacag taattcaagg aatgccggtg 300
 30 gtgaaactca gtgatgaaca tttttggttc gggagccac gtctggttct tcatcttctc 360
 31 catttcgcgt catttcaggt aacttgaaca taaagcttgc ggaaaagctt ttgcgtaaaa 420
 32 tgcacaacct tgactcactt acatccacca aatgatgaat gtcatgcacc atagacatct 480
 33 ggatagcagt gtcaaatgta attttcacta tcatgattgc taaggaaata aagtatcagt 540
 34 gtttagagaa tactttgttg ccacggaata cttaatctct agtcttttagc atgcacttac 600
 35 ttttgaatct gaagccacaa ggctgcgaaa ataggagtgt atttttcctt catctaatag 660
 36 ctcttcattg ttcttgacga atgcatttga aattacatac ttcttttgga tttgggtaaa 720
 37 gattgtctcc atttcaaaaat ttgaaaaact gttttacggc acagctataa tttctctgat 780
 38 gatgtgaac ttttgtgcag tacgaattcg ggttgagatc ctgcttccat gacaactttg 840
 39 agcttatcat cgccagagtc tgccttgggg ttgtcgttca attcatgtgc agctatatca 900
 40 cacttccact ctatgtcttc gtatctcaga tgggttcaca gatgaagaga acgattttcg 960
 41 acgagcagac ggcgaaggcc ctgaagaaat ggcacaaggc agcagtgggtg aagaagaagc 1020
 42 agcagaaggg gtcattccat gagccagggt cagagacacc gggcacggag acgacgacga 1080
 43 cgacggcgac ggcaacggag gagagccagc gagaacgcga cgccgcggcc atgccggtgc 1140
 44 gccacctcca ccgctacaag accatcgccc acgtcggcgc gacggggacg ctgtccgact 1200
 45 cggactgtct cgacacggac acgccgttcg cgtcgccgac gaggctcctg ataccgccga 1260
 46 caaagcagcg gagcctcgac gccgggaggg cggaggtgcg cgtggacgtc gactcgacgc 1320
 47 cgacgccgac accaccggag cgccatgaca gcttctcctt cccgaggttg cctgctcaca 1380
 48 atttgacga gaaatgacca aatgatcatc catcctaagt tctaaccat cagtagtagt 1440
 49 agtagacga tcaactatac atgtaattga aattgatggt ggtgacaagt gtgtgtagag 1500
 50 cagtggagtc tgaacttggt tgctgtccca tttggtccag ctctactctt gtgggtggag 1560
 51 cggagctgag aaaatgccat ttcacgtaaa aaaaaaaaaa 1600
 53 <210> SEQ ID NO: 2
 54 <211> LENGTH: 290

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55 <212> TYPE: PRT
56 <213> ORGANISM: Oryza sativa
58 <400> SEQUENCE: 2
59 Ala Ile Met Leu Phe Asn Val His Gly Trp His Asn Leu Phe Trp Phe
60   1           5           10           15
62 Ser Thr Ile Pro Leu Val Val Thr Leu Ala Val Gly Thr Lys Leu Gln
63   20           25           30
65 Ala Ile Ile Ala Met Met Ala Val Glu Ile Lys Glu Arg His Thr Val
66   35           40           45
68 Ile Gln Gly Met Pro Val Val Lys Leu Ser Asp Glu His Phe Trp Phe
69   50           55           60
71 Gly Lys Pro Arg Leu Val Leu His Leu Ile His Phe Ala Ser Phe Gln
72  65           70           75           80
74 Asn Ala Phe Glu Ile Thr Tyr Phe Phe Trp Ile Trp Tyr Glu Phe Gly
75   85           90           95
77 Leu Arg Ser Cys Phe His Asp Asn Phe Glu Leu Ile Ile Ala Arg Val
78  100          105          110
80 Cys Leu Gly Val Val Val Gln Phe Met Cys Ser Tyr Ile Thr Leu Pro
81  115          120          125
83 Leu Tyr Ala Leu Val Ser Gln Met Gly Ser Gln Met Lys Arg Thr Ile
84  130          135          140
86 Phe Asp Glu Gln Thr Ala Lys Ala Leu Lys Lys Trp His Lys Ala Ala
87 145          150          155          160
89 Val Val Lys Lys Lys Gln Gln Lys Gly Ser Ser His Glu Pro Gly Ser
90  165          170          175
92 Glu Thr Pro Gly Thr Glu Thr Thr Thr Thr Thr Ala Thr Ala Thr Glu
93  180          185          190
95 Glu Ser Gln Arg Glu Arg Asp Ala Ala Ala Met Pro Val Arg His Leu
96  195          200          205
98 His Arg Tyr Lys Thr Ile Ala His Val Gly Ala Thr Gly Thr Leu Ser
99  210          215          220
101 Asp Ser Asp Cys Ser Asp Thr Asp Thr Pro Phe Ala Ser Pro Thr Arg
102 225          230          235          240
104 Leu Leu Ile Pro Pro Thr Lys Gln Arg Ser Leu Asp Ala Gly Arg Ala
105  245          250          255
107 Glu Val Arg Val Asp Val Asp Ser Thr Pro Thr Pro Thr Pro Pro Glu
108  260          265          270
110 Arg His Asp Ser Phe Ser Phe Pro Arg Leu Pro Ala His Asn Leu Gln
111  275          280          285
113 Gln Lys
114  290
116 <210> SEQ ID NO: 3
117 <211> LENGTH: 501
118 <212> TYPE: DNA
119 <213> ORGANISM: Oryza sativa
121 <220> FEATURE:
122 <221> NAME/KEY: unsure
123 <222> LOCATION: (335)
124 <223> OTHER INFORMATION: n = A, C, G, or T

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126 <220> FEATURE:
127 <221> NAME/KEY: unsure
128 <222> LOCATION: (415)
129 <223> OTHER INFORMATION: n = A, C, G, or T
131 <220> FEATURE:
132 <221> NAME/KEY: unsure
133 <222> LOCATION: (445)
134 <223> OTHER INFORMATION: n = A, C, G, or T
136 <220> FEATURE:
137 <221> NAME/KEY: unsure
138 <222> LOCATION: (479)
139 <223> OTHER INFORMATION: n = A, C, G, or T
141 <220> FEATURE:
142 <221> NAME/KEY: unsure
143 <222> LOCATION: (482)
144 <223> OTHER INFORMATION: n = A, C, G, or T
146 <220> FEATURE:
147 <221> NAME/KEY: unsure
148 <222> LOCATION: (493)
149 <223> OTHER INFORMATION: n = A, C, G, or T
151 <400> SEQUENCE: 3
152 aaaatttctc tccccgcact ctctacgcgg cggcgtgcac gttctcctcc acctccgtgc 60
153 actattttact tcccagtttg agtttgacat tctcgcgga agaaggagaa gaagttggtg 120
154 agcctgtgag aggctgattg cgcggcggcc atggccggag ggggagggaa ggcggcggcg 180
155 ggcggcggcg aagcgccggc gataacgctg gagcacacac cgacgtggat cgtctccgcc 240
156 gtctgcttcg tcatcgctcat catctcgctg ctcttcgagc gcctgctcca ccgctgggc 300
W--> 157 aagaggttga agaagaccgc aagaaccgct ctacnaggga ccctcaagtc aaagaagact 360
W--> 158 gatgctgctg gggatcatct gctgctgctg aagtttccag ggctgacgca gaagnagctg 420
W--> 159 aagcacctca tggacactgc agcgncaact cgactcaggg cccaagacgc aagacacgnc 480
W--> 160 anggcgcgcc ggntgagagt c 501
162 <210> SEQ ID NO: 4
163 <211> LENGTH: 81
164 <212> TYPE: PRT
165 <213> ORGANISM: Oryza sativa
167 <220> FEATURE:
168 <221> NAME/KEY: UNSURE
169 <222> LOCATION: (62)
170 <223> OTHER INFORMATION: Xaa = ANY AMINO ACID
172 <400> SEQUENCE: 4
173 Met Ala Gly Gly Gly Gly Lys Ala Ala Ala Gly Gly Gly Glu Ala Pro
174 1 5 10 15
176 Ala Ile Thr Leu Glu His Thr Pro Thr Trp Ile Val Ser Ala Val Cys
177 20 25 30
179 Phe Val Ile Val Ile Ile Ser Leu Phe Glu Arg Leu Leu His Arg
180 35 40 45
W--> 182 Leu Gly Lys Arg Leu Lys Lys Thr Ala Arg Thr Ala Leu Xaa Gly Thr
183 50 55 60
185 Leu Lys Ser Lys Lys Thr Asp Ala Ala Gly Val Ile Ser Leu Leu Leu
186 65 70 75 80

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188 Lys
191 <210> SEQ ID NO: 5
192 <211> LENGTH: 513
193 <212> TYPE: DNA
194 <213> ORGANISM: Oryza sativa
196 <220> FEATURE:
197 <221> NAME/KEY: unsure
198 <222> LOCATION: (425)
199 <223> OTHER INFORMATION: n = A, C, G, or T
201 <220> FEATURE:
202 <221> NAME/KEY: unsure
203 <222> LOCATION: (492)
204 <223> OTHER INFORMATION: n = A, C, G, or T
206 <220> FEATURE:
207 <221> NAME/KEY: unsure
208 <222> LOCATION: (507)
209 <223> OTHER INFORMATION: n = A, C, G, or T
211 <400> SEQUENCE: 5
212 acagatggga tcaaacatga agaagaccat ctctgaggag cagacgatga aggccctgat 60
213 gaactggagg aagacggcga gggagaagaa gaagctccgg gacgccgacg agttcctagc 120
214 acagatgagc ggcgacacga cgccgagccg cggctcgtcg ccggtgcacc tgctgcacaa 180
215 gcaaagggtg aggtcggaag atccgccgag cgcaccggca tcgccggggt tcgccggaga 240
216 ggccagggac atgtaccccg tgcccgtggc gccggtggtg cggccgcatg ggtttaaccg 300
217 gatggaccg gataagagga gggcggcgtc ctgctcggcc atccaagtg acatcgccga 360
218 ttctgatttc tccttcagtg tacaacggtg atggccgaaa ggtttctctg tacttaaagt 420
W--> 219 tgtanagcag caaatatagg aagtacaatg tatagttggt acactacata tagaggattt 480
W--> 220 agaaaagttc antcgatttt tttaagnaac aat 513
222 <210> SEQ ID NO: 6
223 <211> LENGTH: 129
224 <212> TYPE: PRT
225 <213> ORGANISM: Oryza sativa
227 <400> SEQUENCE: 6
228 Gln Met Gly Ser Asn Met Lys Lys Thr Ile Phe Glu Glu Gln Thr Met
229 1 5 10 15
231 Lys Ala Leu Met Asn Trp Arg Lys Thr Ala Arg Glu Lys Lys Lys Leu
232 20 25 30
234 Arg Asp Ala Asp Glu Phe Leu Ala Gln Met Ser Gly Asp Thr Thr Pro
235 35 40 45
237 Ser Arg Gly Ser Ser Pro Val His Leu Leu His Lys Gln Arg Val Arg
238 50 55 60
240 Ser Glu Asp Pro Pro Ser Ala Pro Ala Ser Pro Gly Phe Ala Gly Glu
241 65 70 75 80
243 Ala Arg Asp Met Tyr Pro Val Pro Val Ala Pro Val Val Arg Pro His
244 85 90 95
246 Gly Phe Asn Arg Met Asp Pro Asp Lys Arg Arg Ala Ala Ser Ser Ser
247 100 105 110
249 Ala Ile Gln Val Asp Ile Ala Asp Ser Asp Phe Ser Phe Ser Val Gln
250 115 120 125
252 Arg

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Input Set : A:\BB1313 PCTseqlist.txt

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255 <210> SEQ ID NO: 7
256 <211> LENGTH: 1745
257 <212> TYPE: DNA
258 <213> ORGANISM: Glycine max
260 <400> SEQUENCE: 7
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262 agttcactcc gacgtgggtt gtggccgcct tttgcacagt catcgtcgcc atttccctcg 120
263 ccgctgagcg cctccttcat tatggcggaa agtttctcaa agccaaggac cagaagccgc 180
264 tctacgaagc tctccagaag atcaaagaag agctgatgct tttgggggttc atttccctgc 240
265 ttttgacggt tacacaaaac ggcattacca aaatctgcgt tcgaccctct ttgacgctcc 300
266 acatgctccc gtgtaatctc cagcagctc cagcaaacca cgaatctcat ttccagacat 360
267 ttttccctgg aacagccagg cgccttctct ctggggaaca ctccaccccc gagtccgcct 420
268 ctaaaattgg ttattgctct cgcaagcaca aggtgccttt attatctgtg gaagcacttc 480
269 accaccttca catcttcatt tttgtcctcg ctgtcgtaca cgtctccttt tccgtgctca 540
270 ccgttgtctt tggaggcgcc agaatacgtc agtggaacaa ctgggaagat tctattgcaa 600
271 aacagaacta cgagactgac cgagttctca aaccaaagggt cactcagggt caccagcatg 660
272 attttatcag gggtcgtttt gctggttttt gcaaagactc tgctatagtc ggttggttgc 720
273 tatcctttct aaagcaattt tatggatctg tgacaaaatc agattatgtg acattgcgac 780
274 atggtttcat tatgaccac tgcaggacaa atccgaagtt taattttcac aagtacatga 840
275 ttcgtgccct cgaagatgat ttcaagcaag ttgttggtat aagttgggat ctttggctct 900
276 ttgtggttat cttcttggtt cttaatatca atggttgga tacgtatttc tggattgctt 960
277 ttattcctgt cattctttta cttgctgtgg gcaactaagct ggagcacata ataacccaac 1020
278 tagctcatga agtacctgag aagcatgctg ccatagaagg tgatttagtt gtgcagccat 1080
279 cagatgaaca tttttggttt catcgcccc atgttgctct ctttttgatt cactttatcc 1140
280 ttttccaaaa tgcctttgag atagcatttt ttttctggat atgggtcaca tatggatttg 1200
281 actcctgtat aatgggacaa gttcgataca ttgttccaag gcttggttatt ggggtattta 1260
282 ttcaggtact atgtagctac agcaccctgc cactgtatgc aattggttac cagatgggaa 1320
283 ctactataa gcgggcaata tttaatgatc atttgcaaca aaacattggt ggttgggcac 1380
284 agaaggcgaa gaagaggaaa ggactaaaag ctgatggcaa tcctggccaa ggaagttctc 1440
285 aggagagtgc taatacagga atccagcttg ggtcaatttt caagaaggca actgctccag 1500
286 gagacagttc ttctgcccc aaagctgacg gaatcagctc agtgtagcta ttaagtga 1560
287 gatttacagt cttattttgt aaagttgctc acagattgca gttttcttta tattattttc 1620
288 tttgctaaca taatgtagca ttgtgggaca tgtgtttgac ttggtgtacg cataaggtcg 1680
289 aagtactata tgagtagatg ctagtaatgc tattgtcatt tctaaaaaaa aaaaaaaaaa 1740
290 aaaaaa 1745

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292 <210> SEQ ID NO: 8

293 <211> LENGTH: 506

294 <212> TYPE: PRT

295 <213> ORGANISM: Glycine max

297 <400> SEQUENCE: 8

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298 Met Ser Gly Gly Gly Glu Gly Ala Thr Leu Glu Phe Thr Pro Thr
299 1 5 10 15
301 Trp Val Val Ala Ala Phe Cys Thr Val Ile Val Ala Ile Ser Leu Ala
302 20 25 30
304 Ala Glu Arg Leu Leu His Tyr Gly Gly Lys Phe Leu Lys Ala Lys Asp
305 35 40 45
307 Gln Lys Pro Leu Tyr Glu Ala Leu Gln Lys Ile Lys Glu Glu Leu Met
308 50 55 60
310 Leu Leu Gly Phe Ile Ser Leu Leu Leu Thr Val Thr Gln Asn Gly Ile

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 04/22/2002
PATENT APPLICATION: US/09/857,896A TIME: 15:00:36

Input Set : A:\BB1313 PCTseqlist.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 335,415,445,479,482,493
Seq#:4; Xaa Pos. 62
Seq#:5; N Pos. 425,492,507
Seq#:9; N Pos. 454,504,531,559
Seq#:10; Xaa Pos. 151,168,177,186
Seq#:11; N Pos. 1370
Seq#:12; Xaa Pos. 406
Seq#:19; N Pos. 292,366,372,383,410,418,428,441,454,468,474
Seq#:20; Xaa Pos. 122,124,128
Seq#:21; N Pos. 516,526,545
Seq#:23; N Pos. 459,600,606,607,658,661,672,675,679,683,696,707,721
Seq#:24; Xaa Pos. 153
Seq#:25; N Pos. 17,353,437,455,536,555,557
Seq#:26; Xaa Pos. 6
Seq#:29; N Pos. 223,248,249,254,311,330,341,350,361,389,405,446
Seq#:30; Xaa Pos. 74
Seq#:33; N Pos. 81,177,280,336,339,345,350,371,380,399,405,412,432,452,462
Seq#:33; N Pos. 466,476,482
Seq#:34; Xaa Pos. 30,48,49,51,53,60,63
Seq#:35; N Pos. 19,328,382,394,453
Seq#:36; Xaa Pos. 7,110

VERIFICATION SUMMARY

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Input Set : A:\BB1313 PCTseqlist.txt

Output Set: N:\CRF3\04222002\I857896A.raw

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:157 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:300
L:158 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:360
L:159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:420
L:160 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:480
L:182 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:48
L:219 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:420
L:220 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:480
L:427 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:420
L:428 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:480
L:429 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:540
L:484 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:144
L:487 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:160
L:490 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:176
L:526 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:1320
L:624 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:400
L:948 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:240
L:950 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:360
L:951 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:420
L:995 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:112
L:1030 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:480
L:1031 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:540
L:1142 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:420
L:1144 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:540
L:1145 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:600
L:1146 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:660
L:1147 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:720
L:1187 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:144
L:1231 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
L:1236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:300
L:1238 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:420
L:1239 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:480
L:1240 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:540
L:1253 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
L:1421 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:180
L:1422 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:240
L:1423 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:300
L:1424 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:360
L:1425 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:420
L:1450 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:64
L:1694 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:60
L:1695 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:120
L:1697 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:240
L:1698 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:300
L:1699 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:360
L:1700 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:420
L:1701 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:480
L:1742 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:16

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L:1745 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:32
L:1748 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:48
L:1785 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:0